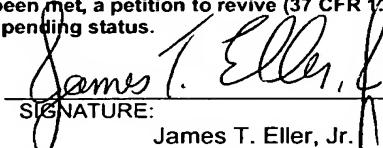


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| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>   |   | <b>ATTORNEY'S DOCKET NUMBER</b><br>4795-0130PUS1                    |
| INTERNATIONAL APPLICATION NO.<br>PCT/KR2003/001845  | INTERNATIONAL FILING DATE<br>8 September 2003 | U.S. APPLICATION NO. (If known, see 37 CFR 1.5)<br><b>10/526402</b> |
| PRIORITY DATE CLAIMED<br>13 September 2002  |   |   |
| TITLE OF INVENTION      BIO-CHIP PREPARED BY GELATION ON A CHIP SUBSTRATE   |   |   |
| APPLICANT(S) FOR DO/EO/US      So Youn KIM; Kyun Young KIM; Jeong Min HA; Hye Sang PARK; Jae Young JANG; Young Duk KIM; and Phil Seok KIM   |   |   |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:   |   |   |
| <p>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2))<br/>       a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).<br/>       b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. WO 2004/024955 A1<br/>       c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)).<br/>       a. <input checked="" type="checkbox"/> is attached hereto.<br/>       b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))<br/>       a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).<br/>       b. <input type="checkbox"/> have been communicated by the International Bureau.<br/>       c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.<br/>       d. <input checked="" type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).</p> <p>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).</p> |   |   |
| Items 11 to 20 below concern document(s) or information included:   |   |   |
| <p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input type="checkbox"/> A preliminary amendment.</p> <p>14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input checked="" type="checkbox"/> Other items or information: PCT/ISA/210; PCT/IB/306; PCT/IB/308; Six (2) sheets of Formal Drawings</p>   |   |   |

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| U.S. APPLICATION NO. (If known, see 37 CFR 1.75)<br><b>10/526402</b>  |              | INTERNATIONAL APPLICATION NO.<br>PCT/KR2003/001845                            | ATTORNEY'S DOCKET NUMBER<br>4795-0130PUS1 |
| The following fees have been submitted  |              | CALCULATIONS  | PTO USE ONLY                              |
| 21. <input checked="" type="checkbox"/> Basic national fee .....\$300   |              | \$ 300.00   |   |
| 22. <input checked="" type="checkbox"/> Examination fee<br>If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) .....\$100<br>All other situations .....\$200   |              |   |   |
| 23. <input checked="" type="checkbox"/> Search fee<br>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority .....\$100<br>International Search Report prepared and provided to the Office .....\$400<br>All other situations .....\$500   |              | \$ 200.00   |   |
| <b>TOTAL OF 21, 22 and 23 =</b>   |              | \$ 500.00   |   |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  |              |   |   |
| Total Sheets  | Extra sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE                                      |
| 31 - 100 =  | /50 =        |   | x \$250.00                                |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).   |              | \$ 130.00   |   |
| CLAIMS  |              | NUMBER FILED  | NUMBER EXTRA                              |
| Total claims  | 28 - 20 =    | 8   | x 50.00                                   |
| Independent claims  | 3 - 3 =      | 0   | x 200.00                                  |
| MULTIPLE DEPENDENT CLAIM(s) (if applicable)   |              | + 360.00  | \$ 360.00                                 |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>  |              | \$ 1,890.00   |   |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.  |              | \$  |   |
| <b>SUBTOTAL =</b>   |              | \$ 1,890.00   |   |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).  |              | \$  |   |
| <b>TOTAL NATIONAL FEE =</b>   |              | \$ 1,890.00   |   |
| Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property   |              | + \$ 0.00   |   |
| <b>TOTAL FEES ENCLOSED =</b>  |              | \$ 1,890.00   |   |
|   |              | Amount to be refunded:  | \$  |
|   |              | Amount to be charged:   | \$  |
| <p>a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>1,890.00</u> to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>02-2448</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p> |              |   |   |
| NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the International Application to pending status.   |              |   |   |
| SEND ALL CORRESPONDENCE TO:<br><br><br>SIGNATURE:<br>James T. Eller, Jr.<br>NAME  |              |   |   |
| CUSTOMER NUMBER: 02292<br>March 2, 2005<br>JTE/nl   |              |   |   |
| 39,538<br>REGISTRATION NUMBER   |              |   |   |